

# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

## Title of Invention

Directional Signal and Noise Sensors for Borehole  
Electromagnetic Telemetry System

Application Number : 10/673971



Confirmation Number: 3957

First Named Applicant: Paul Rodney

Attorney Docket Number:

Art Unit: 2831

Examiner:

Search string: ( 4605826 or 4626894 or 4750156 or 4884230 or 4947362 or 5189415 or 5274606 or 5394141 or 5436564 or 5448531 or 5473321 or 5490121 or 5555530 or 5576703 or 5780784 or 5815496 or 5841810 or 5969638 or 5978417 or 6094623 or 6208265 or 6434247 or 6657597 ).pn

## US Patent Documents

**Note: Applicant is not required to submit a paper copy of cited US Patent Documents**

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	4605826	1986-08-12	Kanemasa		370	290
	2	4626894	1986-12-02	Harwood, et al.		346	667
	3	4750156	1988-06-07	Abrams, et al.		367	42
	4	4884230	1989-11-28	Gielis, et al.		708	318
	5	4947362	1990-08-07	Bui		708	322
	6	5189415	1993-02-23	Shimada, et al.		340	854.6
	7	5274606	1993-12-28	Drumheller, et al.		367	82
	8	5394141	1995-02-28	Soulier		340	854.4
	9	5436564	1995-07-25	Kreger, et al.		600	411
	10	5448531	1995-09-05	Dragoset, Jr.		367	45
	11	5473321	1995-12-05	Goodman, et al.		340	854.9
	12	5490121	1996-02-06	Gardner, et al.		367	83
	13	5555530	1996-09-10	Meehan		367	45
	14	5576703	1996-11-19	MacLeod, et al.		340	854.4
	15	5780784	1998-07-14	Robbins		181	102
	16	5815496	1998-09-29	Flanagan, et al.		370	287
	17	5841810	1998-11-24	Wong, et al.		375	232
	18	5969638	1999-10-19	Chin		340	855.3
	19	5978417	1999-11-02	Baker, et al.		375	232
	20	6094623	2000-07-25	Mintchev, et al.		702	85
	21	6208265	2001-03-27	Smith		340	854.6

	22	6434247	2002-08-13	Kates, et al.		381	312
	23	6657597	2003-12-02	Rodney, et al.		343	719

## Signature

Examiner Name	Date